

Product datasheet for **RG235591**

DYNLT1 (NM_001291602) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DYNLT1 (NM_001291602) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DYNLT1
Synonyms: CW-1; TCTEL1; tctex-1; TCTEX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235591 representing NM_001291602.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAAGACTACCAGGCTGCGGAGGAGGCTATAGAAAGCGCAATTGGTGGTAACGCTTATCAACACAGC
AAAGTGAACCAAGTGGACCACAAATGTAGTAGAACAACTTTAAGCCAACCTACCAAGCTGGGAAAACCA
TTTAAATACATCGTGACCTGTGTAATTATGCAGAAGAATGGAGCTGGATTACACACAGCAAGTTCCTGC
TTCTGGGACAGCTCTACTGACGGGAGCTGCACTGTCCGATGGGAGAATAAGACCATGTACTGCATCGTC
AGTGCCTTCGGACTGTCTATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235591
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MEDYQAAEEAIESAIGGNAYQHSKVNQWTTNVVEQTLSQLTKLGKPFKYIVTCVIMQKNGAGLHTASSC
FWDSSDTGCTVRWENKTMYSIVSAFGLSI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

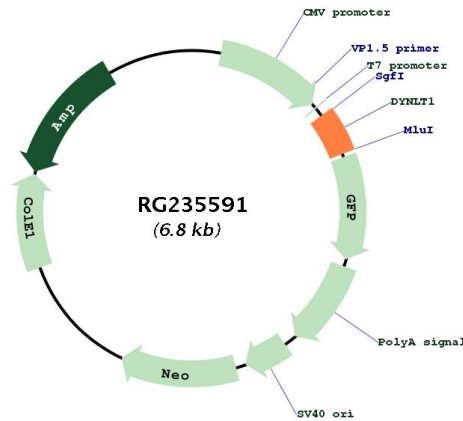


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001291602

ORF Size: 297 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
RefSeq:	NM_001291602.2
RefSeq Size:	746 bp
RefSeq ORF:	300 bp
Locus ID:	6993
Cytogenetics:	6q25.3
MW:	11.4 kDa
Gene Summary:	This gene encodes a component of the motor complex, cytoplasmic dynein, which transports cellular cargo along microtubules in the cell. The encoded protein regulates the length of primary cilia which are sensory organelles found on the surface of cells. The protein encoded by this gene interacts with viral proteins, like the minor capsid protein L2 of human papillomavirus, and is required for dynein-mediated delivery of the viral nucleic acid to the host nucleus. This protein interacts with oncogenic nucleoporins to disrupt gene regulation and cause leukemic transformation. Pseudogenes of this gene are present on chromosomes 4 and 17. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]